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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Roland A. Wood

Title: IMPROVED BOLOMETER OPERATION USING FAST SCANNING

Docket No.: H0001512 (256.087US1)
Filed: March 6, 2001
Examiner: Shun Lee

Serial N.: 09/800,366
Du Date: August 29, 2002
Group Art Unit: 2878

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Commissioner for Patents
Washington, D.C. 20231

We are transmitting herewith the following attached items (as indicated with an "X"):

- X A return postcard.
- X An Amendment and Response Under 37 C.F.R. 1.111 (20 Pages).
- X Authorization to charge deposit account no. 19-0743 in the amount of \$234.00 to cover the fee for additional claims as calculated below.
- X Clean Version of Amended Specification Paragraphs (9 pgs.).
- X Clean Version of Pending Claims (7 pgs.).

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If an additional fee is required due to changes to the claims, the fee has been calculated as follows:

Calculation of Additional Fee						
	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Percent Extra	Rate	Fee
TOTAL CLAIMS	39	-	26	13	x 18 =	\$234.00
INDEPENDENT CLAIMS	3	-	3		x 84 =	\$0.00
[] MULTIPLE DEPENDENT CLAIMS PRESENTED						\$0.00
TOTAL						\$234.00

Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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By:
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this 29th day of August, 2002.

Anne M. Richards
Name

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S/N 09/800,366

PATENT

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Applicant:	Roland A. Wood	Examiner:	Shun Lee
Serial No.:	09/800,366	Group Art Unit:	2878
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AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
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Applicant has reviewed the Office Action mailed on May 29, 2002. Please amend the above-identified patent application as follows.

IN THE DRAWINGS

The Examiner objected to Figures 3, 4, and 9 because the reference sign(s) 370, 470, and 940, respectively, are not mentioned in the description.

The following proposed amendments to the specification overcome the objection to Figures 3, 4, and 9.

IN THE SPECIFICATION

Please make the paragraph substitutions indicated in the appendix entitled Clean Version of Amended Specification Paragraphs. The specific changes incorporated in the substitute paragraphs are shown in the following marked-up versions of the original paragraphs:

The paragraph beginning on page 2, line 26 is amended as follows:

In the prior art, one single bias pulse is applied to each microbolometer in the array in each frame time. Application of a single bias pulse in each frame time can result in a temperature increase in the microbolometer over and above the heating effect of the incident radiation. Since, by necessity, such bias pulses have to be much shorter in time than the frame time, the heating effect is very rapid. Thus, when one bias pulse is applied to each microbolometer in the array in each frame time, the temperature of the microbolometer can